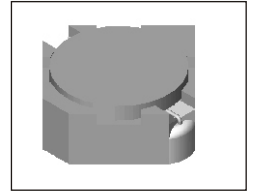


# SMT Power Inductor

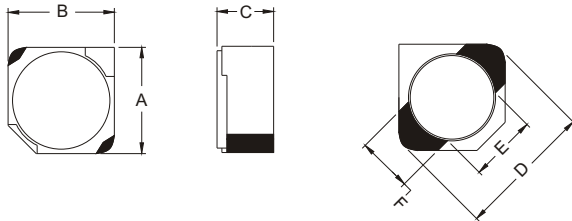
## SILM4018 Type

### Features

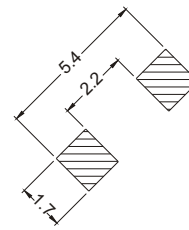
- RoHS compliant.
- Low profile(1.8mm max. height) SMD type.
- Magnetically shielded, suitable for high density mounting.
- Self-leads ,suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



### Mechanical Dimension :



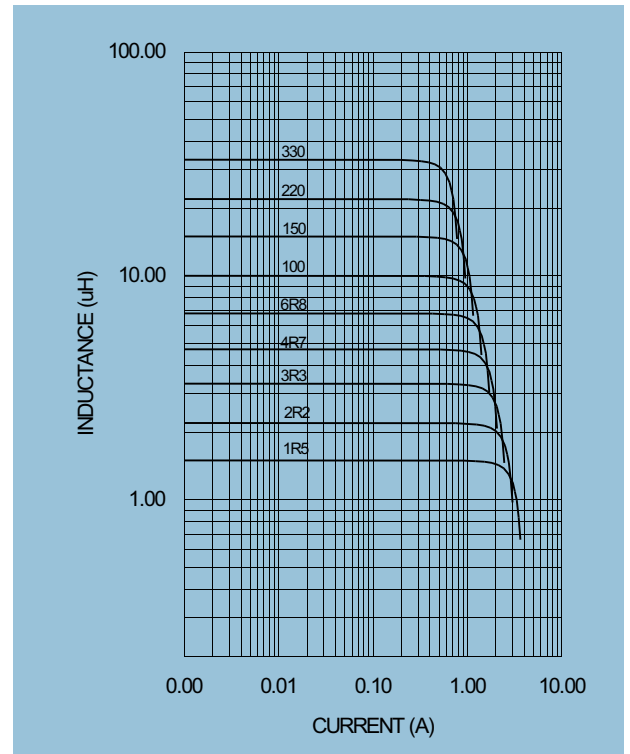
### RECOMMENDED PAD PATTERNS



UNIT:mm/inch  
 A = 4.0 / 0.157 Max.  
 B = 4.0 / 0.157 Max.  
 C = 1.8 / 0.071 Max.  
 D = 4.8 / 0.189 Max.  
 E = 2.9 / 0.114  
 F = 1.0 / 0.039

### Electrical Characteristics : 25°C : 100KHz, 0.1V

PART NO.	L <sup>1</sup> ( $\mu$ H)	DCR (m $\Omega$ ) MAX	I <sub>rated</sub> <sup>2</sup> (A <sub>dc</sub> )
SILM4018 - 1R5	1.5	52	1.55
SILM4018 - 2R2	2.2	72	1.20
SILM4018 - 3R3	3.3	85	1.10
SILM4018 - 4R7	4.7	105	0.90
SILM4018 - 6R8	6.8	170	0.73
SILM4018 - 100	10.0	210	0.55
SILM4018 - 150	15.0	295	0.45
SILM4018 - 220	22.0	430	0.40
SILM4018 - 330	33.0	675	0.32



1. Tolerance of inductance :  $\pm 30\%$ .
2. I<sub>rated</sub> is the DC current which cause the inductance drop 35% typical of its nominal inductance without current and the surface of the part increase less than 45°C.
3. Operating temperature : -20°C to 105°C (including self-temperature rise).



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